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**(54) PRODUCTION OF FLEXIBLE
POLYETHER-URETHANE FOAM OF LOW GAS
PERMEABILITY**

(57) Abstract:

PURPOSE: To produce the titled foam having low gas permeability, low shrinkage, low density and excellent hardness, by reacting a mixture comprising a polyol, an organic polyisocyanate, a blowing agent, a catalyst and a specified foam stabilizer.

CONSTITUTION: A reactant mixture comprising (A) a polyetherpolyol, (B) an organic polyisocyanate, (C) a blowing agent, (D) a catalyst, and (E) 0.5W5.0pts.wt. (per 100pts.wt. component A) polysiloxane/polyoxyalkylene copolymer, as a foam stabilizer, of formula I [wherein m is 1W300 on the average, n is 1W25 on the average, X is formula II (wherein R is a 1W10C alkylene, a/l is 3/1W1/3 by mo-

lar ratio, Y is -OR' or formula III, R' is a 1W5C alkyl, and the proportion of H is at least 50%] and, optionally, (F) a flame retardant, a crosslinking agent, etc. is poured into a mold and expanded by heating.

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